

Machine Id 1DW310EXCMF711937 Component

Transmission (Auto)

JOHN DEERE HY-GARD HYD/TRANS (64 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

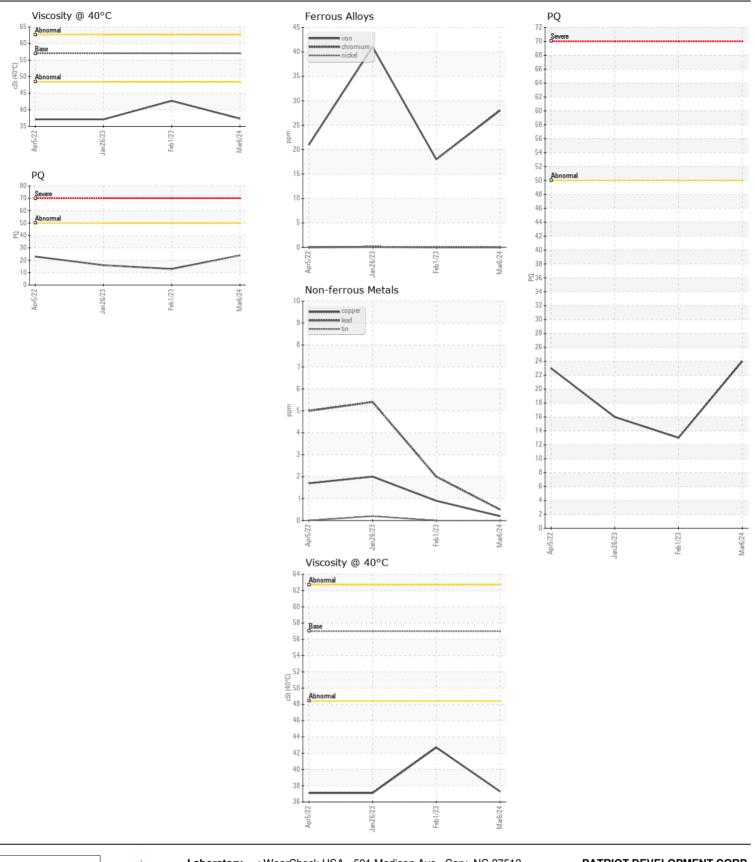
There is no indication of any contamination in the fluid.

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number	0.0111	Client Info		JR0210323	JR0160379	JR0157400
Sample Date		Client Info		06 Mar 2024	01 Feb 2023	26 Jan 2023
Machine Age	hrs	Client Info		4153	1955	1945
Oil Age	hrs	Client Info		4000	0	1945
Filter Age	hrs	Client Info		4000	0	1445
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
·····						
PQ		ASTM D8184	>50	24	13	16
Iron	ppm	ASTM D5185m	>160	28	18	41
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	0	<1	<1
Lead	ppm	ASTM D5185m	>50	<1	2	5
Copper	ppm	ASTM D5185m	>225	<1	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE >20	NONE 2	NONE 2	NONE 4
Silicon	ppm	ASTM D5185m	>20	2	2	4
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>20 >20	2 1	2 0	4 3
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>20 >20 >20 >0.1	2 1 NEG	2 0 NEG	4 3 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 >20 >0.1 NONE	2 1 NEG NONE	2 0 NEG NONE	4 3 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >20 >0.1 NONE NONE	2 1 NEG NONE NONE	2 0 NEG NONE NONE	4 3 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >20 >0.1 NONE NONE NONE	2 1 NEG NONE NONE NONE	2 0 NEG NONE NONE NONE	4 3 NEG NONE NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	2 1 NEG NONE NONE NONE NORML	2 0 NEG NONE NONE NONE NORML	4 3 NEG NONE NONE NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NORML NORML	2 1 NEG NONE NONE NORE NORML	2 0 NEG NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NORML NORML	2 1 NEG NONE NONE NORML NORML NEG	2 0 NEG NONE NONE NONE NORML NORML NEG	4 3 NEG NONE NONE NONE NORML NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >20 >0.1 NONE NORME NORML >0.1	2 1 NEG NONE NONE NORML NORML NEG 2	2 0 NEG NONE NONE NORML NORML NEG 0	4 3 NEG NONE NONE NORML NORML NEG 3
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NORME NORML >0.1	2 1 NEG NONE NONE NORML NORML NEG 2 109	2 0 NEG NONE NONE NORML NORML NEG 0 134	4 3 NEG NONE NONE NORML NORML NEG 3 115
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1	2 1 NEG NONE NONE NORML NORML NEG 2 109 0	2 0 NEG NONE NONE NORML NORML NEG 0 134 0	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1	2 1 NEG NONE NONE NORML NORML NEG 2 109 0 0	2 0 NEG NONE NONE NORML NORML NEG 0 134 0 0	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1	2 1 NEG NONE NONE NORML NORML NEG 2 109 0 0 0	2 0 NEG NONE NONE NORML NORML NEG 0 134 0 0 <1	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1 0 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML >0.1 6 0 0 0	2 1 NEG NONE NONE NORML NORML NEG 2 109 0 0 0 0 0 0	2 0 NEG NONE NONE NORML NORML NEG 0 134 0 0 134 0 0 134	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1 0 <1 0 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1 6 0 0 0 145 3570	2 1 NEG NONE NONE NORML NORML NEG 2 109 0 0 0 0 0 0 0 0 0 79	2 0 NEG NONE NONE NORML NORML NEG 0 134 0 0 134 0 0 2 134 0 0 2 134	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1 0 <1 0 <1 135
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML >0.1 6 0 0 0 145 3570 1290	2 1 NEG NONE NONE NORML NORML NEG 2 109 0 0 0 0 0 0 0 0 79 278	2 0 NEG NONE NONE NORML NORML NEG 0 134 0 0 134 0 0 21 0 0 134 0 0 71	4 3 NEG NONE NONE NORML NORML NEG 3 115 <1 0 <1 0 <1 <1 0 <1 135 284

Submitted By: BRANDON STEVENS



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 PATRIOT DEVELOPMENT CORP Laboratory 回船 Sample No. : JR0210323 Received : 20 Mar 2024 22721 LADBROOK DRIVE STE 120 Lab Number : 06123892 Tested : 21 Mar 2024 STERLING, VA Diagnosed Unique Number : 10938043 : 22 Mar 2024 - Don Baldridge US 20166 Test Package : CONST (Additional Tests: PQ) Contact: ROBERT MOSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. robert.moss@patriotdev.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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